Final Architecture Diagrams #1 Lab [Print Only Page 1]

All of the work in this project is my own! I have not left copies of my code in public folders on university computers. I have not given any of this project to others. I will not give any portion of this project to others taking this class. I realize that the penalty for turning in work that is not my own can range from an "F" in the class to dismissal from Trinity University.

Team Name = _____

Team # = _____

Print Name _____ Time Spent = _____.____ Hrs.

Signature _____ (pledged)

What Did this team member contribute to this application: _____

_____

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Print Name _____ Time Spent = _____.____ Hrs.

Signature _____ (pledged)

What Did this team member contribute to this application: _____

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Print Name _____ Time Spent = _____.____ Hrs.

Signature _____ (pledged)

What Did this team member contribute to this application: _____

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Print Name _____ Time Spent = _____.____ Hrs.

Signature _____ (pledged)

What Did this team member contribute to this application: _____

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Architecture Diagram Software (Select Anything You Want!)

Final High-Level AD & Subsystem AD Lab

Architectural Diagrams
Team Lab Assignment
50 Points

For SECURITY Reasons, It Is Imperative That You Do Not Leave Any PowerPoint Or Prototype Components On Any University Computer In An UnSecure Folder!

"Build The Right System"

1] As your book points out more than a dozen times, the job of the software engineer is to build the "right system"; that is the system that the user wants. **It will often not be the system that you would necessarily want!**

2] Review the project description.

3] There will be times that I wear the hat of the Stakeholder and tell you what I want in our system. Your book says that a stakeholder may well mention something once in passing and expect you to have that in the delivered product.

4] You will often rely on witch-craft to anticipate what the user might need/want/like before they tell you. Your job is to create the ideal solution. Build the Right System!

5] Remember, I hope to franchise this application; your software will be used by each and every site.

Project Thoughts

1] Your system is to be a multi-user, stand-alone system that has absolutely no interface between any other computer system.

2] You need not concern yourself with Payroll or Scheduling.

3] You are to complete the design for a system that meets all of the communication and organization needs.

4] You are to design a system, whose functionality is so obvious, that a user manual is not necessary.

5] You are to concentrate on technology and take the application into the next 10 years. Think outside the box.

6] We have discussed a number of different scenarios --> Why was it necessary to look up a user?

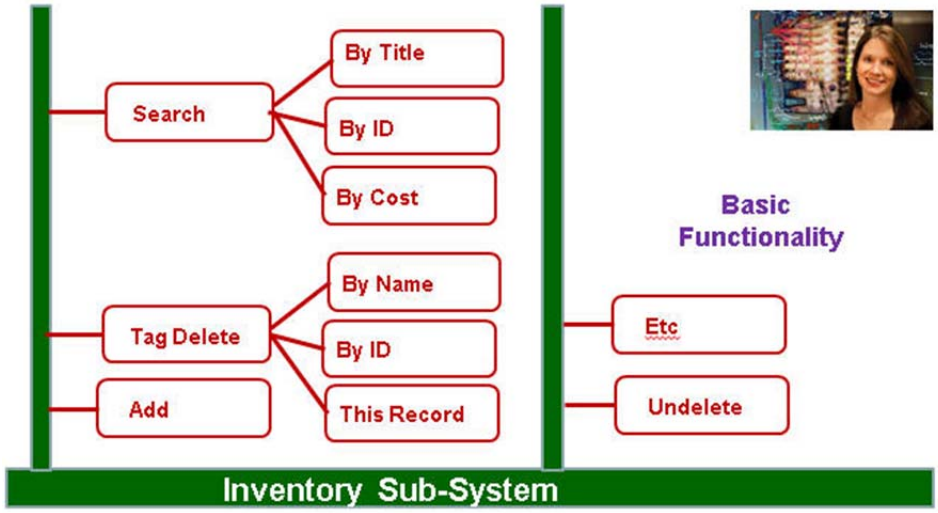
Architecture Diagram (AD)

1] Create a High-Level Architecture Diagram that shows all of the Sub-Systems in the Application. Save all your original files so that you are able to modify them. Each and every team modified the first of these diagrams last year.

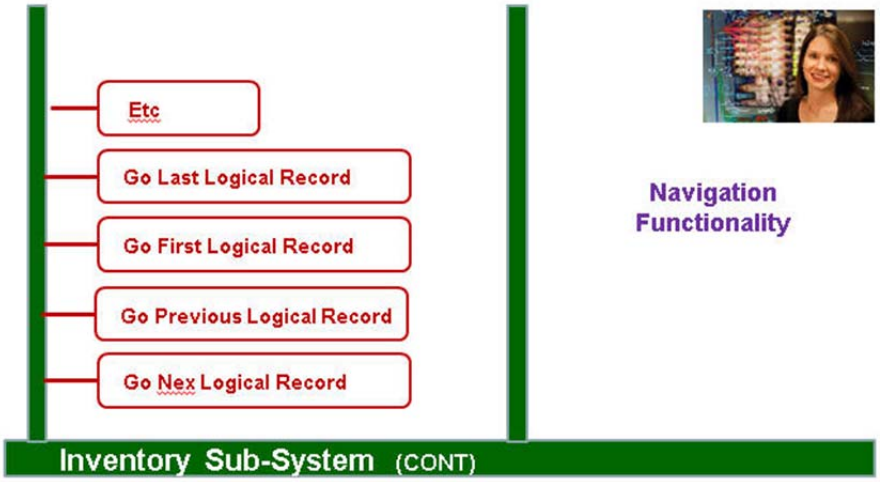
2] When all of the functionality of the entire system can be represented on a single page, it is not necessary to refine the High-Level Diagram into Sub-Systems; that is not the case for this application.

Refined AD Architecture Sub-System Diagram

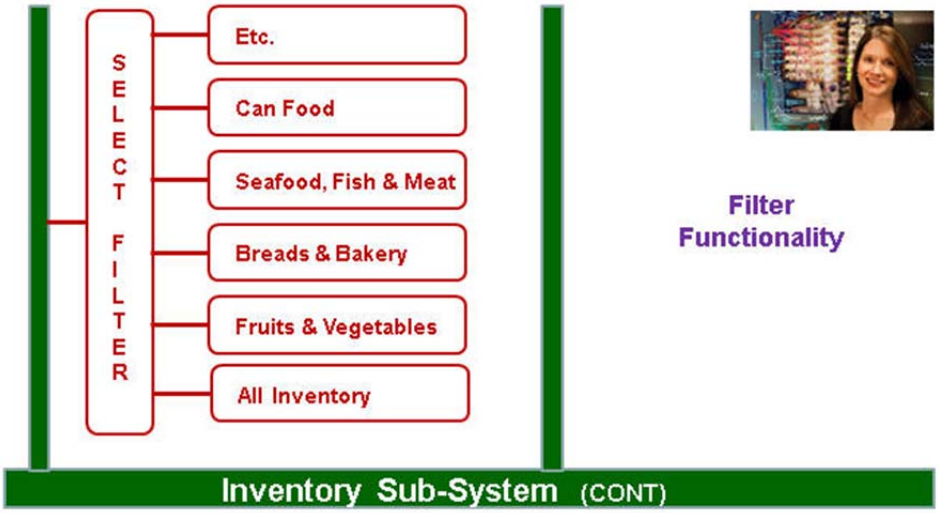
1] Create the Sub-System Architecture Diagram(s) that refines the Users SubSystem. The sub-system name ("Users Sub-System") should be clearly visible. You may use more than one slide (if necessary). Your slides need not follow the format below, but they must clearly illustrate the functionality.



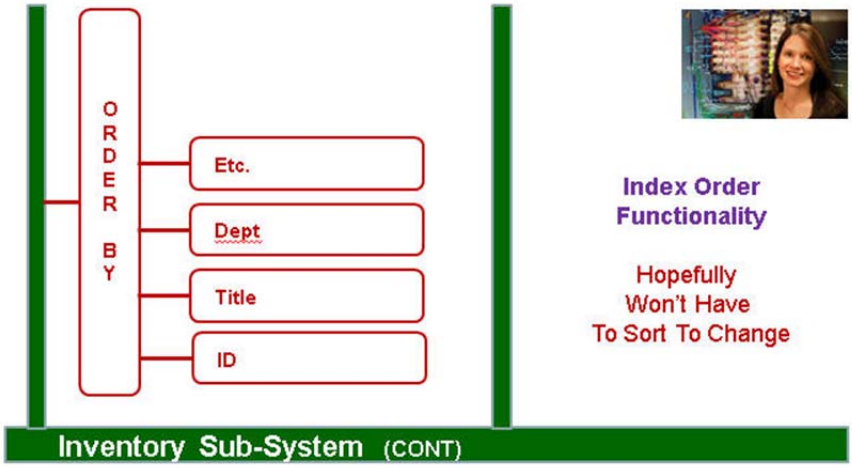
Include Basic Functionality!



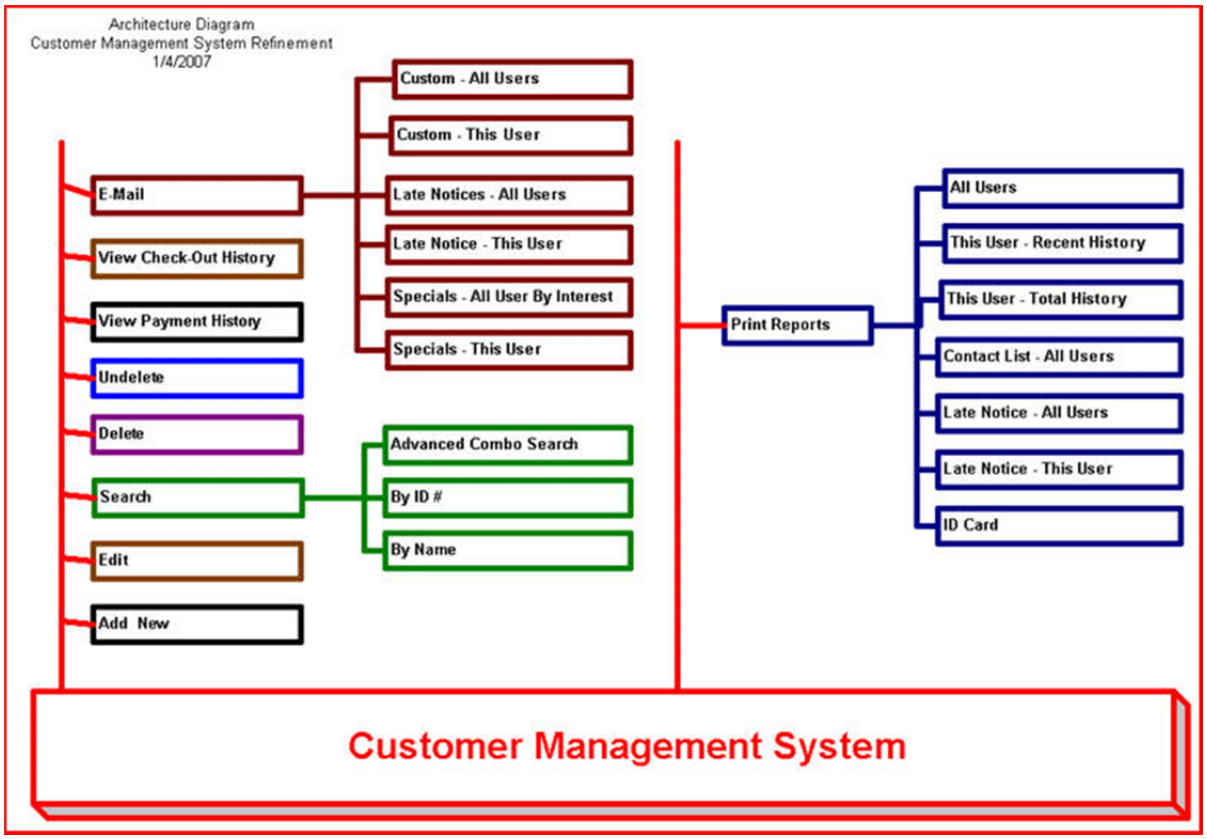
Include Navigational Functionality!



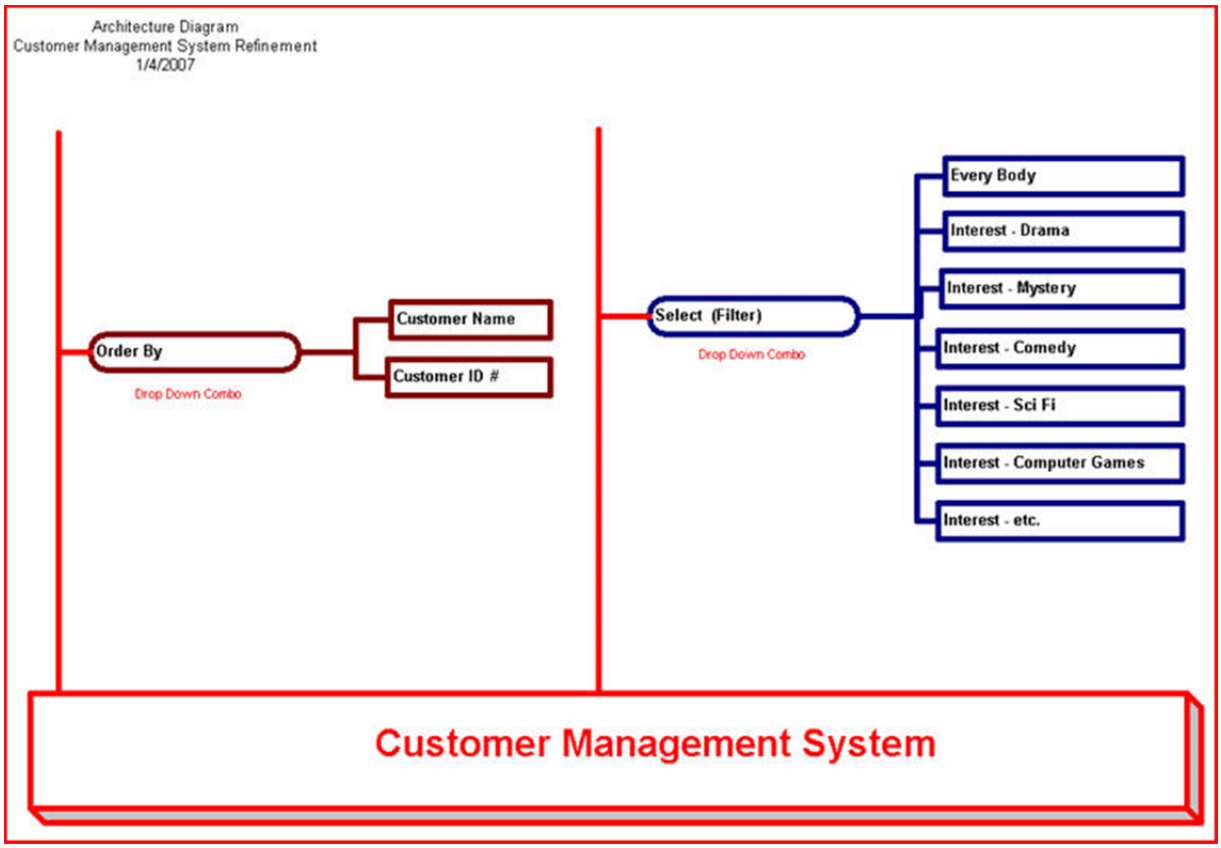
Include Filter Functionality; you may include more than one.



Include Order By Functionality!



Include Report Functionality!



2] These diagrams should include sufficient information to enable the software engineer to understand **all of the functionality** required for this portion of the project.

Only include the functionality that directly relates to this sub-system; it is the case that you might have a button on the Customer/Users Form to transport this User to a Check-Out Form but that does not make this part of the Customer/Users System.

3] You must include Filters and Order By. You must include great navigation buttons that include at least Next & Previous!

4] Once you have your prototype (for this component) completed, you should make sure that all functionality described in the AD is clearly available on the proper forms.

5] Once you have your class diagrams (for this component) completed, you should make sure that the fields, necessary to implement all of the functionality described in the AD, are available.

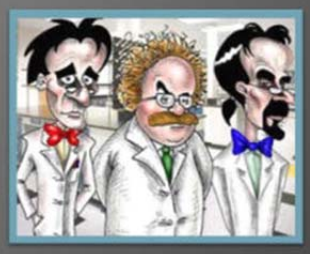
6] Save all your original files so that you are able to modify them. Each and every team modified the first of these diagrams last year.

7] This is the time to carefully think through the implementation and design. For example: suppose there is a function, called **Delete**, on the AD diagram; we have already discussed the problems that would occur if you physically removed users/customers from the system [check-out transactions would be problematic because these transactions would point to records that don't exist - BAD!). Thus we should have a field, maybe called Deleted, in the users/customers class. It should appear in the class diagram for users/customers.

Create A Power Point Presentation

1] **Create a Power Point Presentation** for your Architecture Diagram screen captures. If you are on Team 1, call the presentation **Team-1-Architecture-Diagrams-Final.ppt**. If you are on Team 2, call the presentation **Team-2-Architecture-Diagrams-Final.ppt**. etc.

Make all slides professional enough to view with stakeholder! **Create A Great First Slide!**



Evan Barnett, Danny Saltus,
James Seales, Kenny Wong

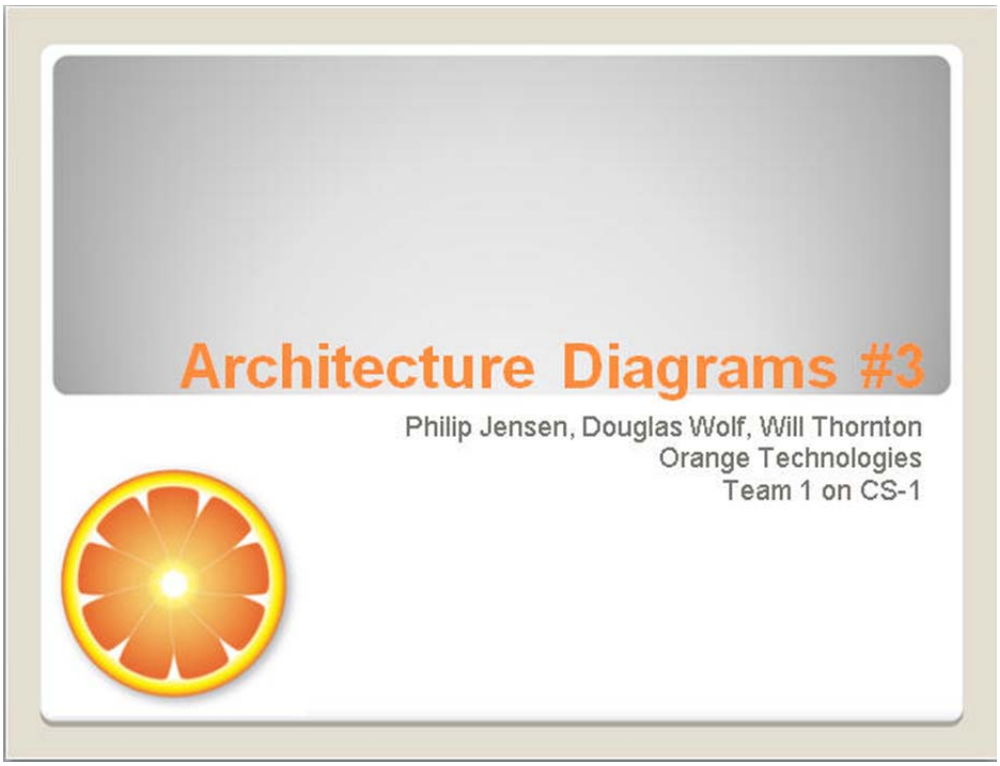
ARCHITECTURE DIAGRAMS #3
THE SOFTWARE SCIENTISTS

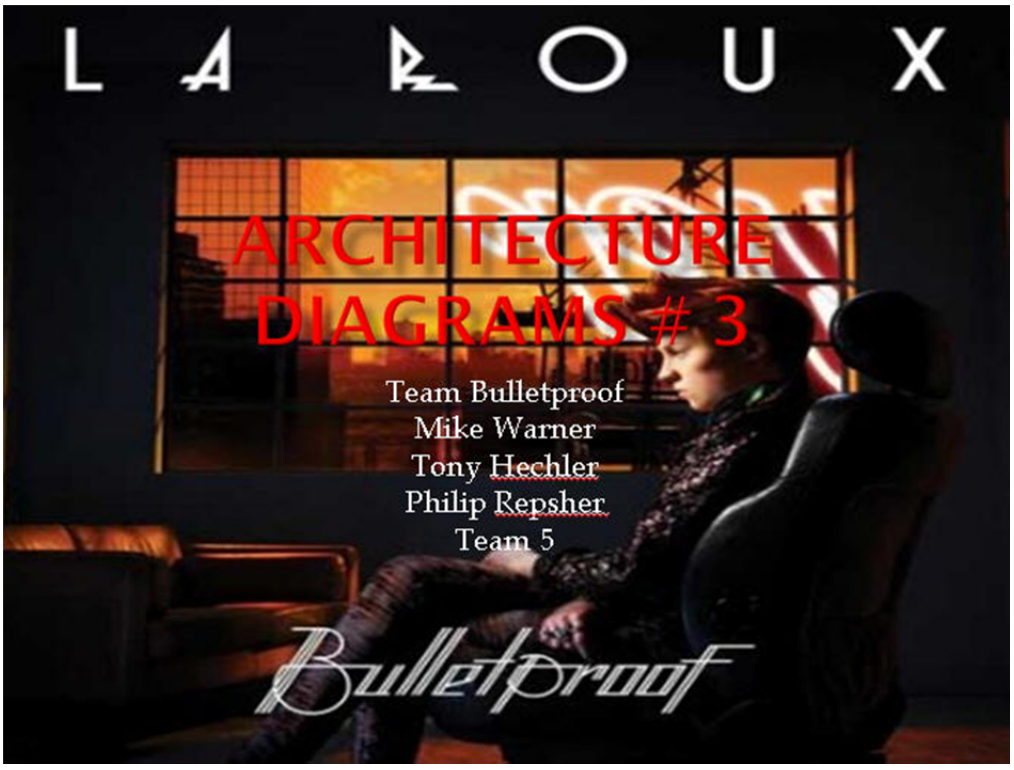
Architecture Diagrams

Prometheus

Kendall Bailey, Matthew Fitzpatrick, Matt Hawley, Ryan Tanner

Team # 3





2] The first slide is a Title Slide that shall contain

- Says **Architecture Diagrams # 1**
- Your company name (revise it if you like)
- The names of all team members
- **Team ?** (replace ? with your number)
- At least one graphic image that you think is reflective of your group or team name.

3] The next slide is a Title Slide that says **High-Level Architecture Diagram**

4] Behind the title slide shall be a slide that contains a professional quality screen capture of your High-Level Architecture Diagram. Imagine yourself using it during a formal review session with your stakeholder(s).

User Sub-System

5] The next major slide is a Title Slide that says **Users Sub-System Architecture Diagram(s)**

6] Immediately after this title slide shall be a collection [one or more slides] of professional quality screen captures of the User's Sub-System Architecture Diagrams. Imagine yourself using it during a formal review session with your stakeholder(s). If the audience can clearly see the entire Subsystem AD on a single slide, label it **Users Sub-System Architecture Diagram [A]** and continue; if not, label the other slides **Users Sub-System Architecture Diagram [A]**, **Users Sub-System Architecture Diagram [B]**, **Users Sub-System Architecture Diagram [C]**, etc. Use as many slides as is necessary.

Vendor Sub-System

7] The next major slide is a Title Slide that says **Vendors Sub-System Architecture Diagram(s)**

8] Immediately after this title slide shall be a collection [one or more slides] of professional quality screen captures of the Vendor's Sub-System Architecture Diagrams. Imagine yourself using it during a formal review session with your stakeholder(s). If the audience can clearly see the entire Subsystem AD on a single slide, label it **Vendors Sub-System Architecture Diagram [A]** and continue; if not, label the other slides **Vendors Sub-System Architecture Diagram [A]**, **Vendors Sub-System Architecture Diagram [B]**, **Vendors Sub-System Architecture Diagram [C]**, etc. Use as many slides as is necessary.

Inventory Sub-System

9] The next major slide is a Title Slide that says **Inventory Sub-System Architecture Diagram(s)**

10] Immediately after this title slide shall be a collection [one or more slides] of professional quality screen captures of the User's Sub-System Architecture Diagrams. Imagine yourself using it during a formal review session with your stakeholder(s). If the audience can clearly see the entire Subsystem AD on a single slide, label it **Inventory Sub-System Architecture Diagram [A]** and continue; if not, label the other slides **Inventory Sub-System Architecture Diagram [A]**, **Inventory Sub-System Architecture Diagram [B]**, **Inventory Sub-System Architecture Diagram [C]**, etc. Use as many slides as is necessary.

Purchase Order Sub-System

11] The next major slide is a Title Slide that says **Purchase Order Sub-System Architecture Diagram(s)**

12] Immediately after this title slide shall be a collection [one or more slides] of professional quality screen captures of the User's Sub-System Architecture Diagrams. Imagine yourself using it during a formal review session with your stakeholder(s). If the audience can clearly see the entire Subsystem AD on a single slide, label it **Purchase Order**

Sub-System Architecture Diagram [A] and continue; if not, label the other slides **Purchase Order Sub-System Architecture Diagram [A]**, **Purchase Order Sub-System Architecture Diagram [B]**, **Purchase Order Sub-System Architecture Diagram [C]**, etc. Use as many slides as is necessary.

Sales Order Sub-System

13] The next major slide is a Title Slide that says **Sales Order Sub-System Architecture Diagram(s)**

14] Immediately after this title slide shall be a collection [one or more slides] of professional quality screen captures of the User's Sub-System Architecture Diagrams. Imagine yourself using it during a formal review session with your stakeholder(s). If the audience can clearly see the entire Subsystem AD on a single slide, label it **Sales Order Sub-System Architecture Diagram [A]** and continue; if not, label the other slides **Sales Order Sub-System Architecture Diagram [A]**, **Sales Order Sub-System Architecture Diagram [B]**, **Sales Order Sub-System Architecture Diagram [C]**, etc. Use as many slides as is necessary.

??r Sub-System – Any Other Sub-System You Have Deemed Necessary

13] The next major slide is a Title Slide that says **??? Sub-System Architecture Diagram(s)**

14] Immediately after this title slide shall be a collection [one or more slides] of professional quality screen captures of the User's Sub-System Architecture Diagrams. Imagine yourself using it during a formal review session with your stakeholder(s). If the audience can clearly see the entire Subsystem AD on a single slide, label it **??? Sub-System Architecture Diagram [A]** and continue; if not, label the other slides **??? Sub-System Architecture Diagram [A]**, **??? Architecture Diagram [B]**, **??? Sub-System Architecture Diagram [C]**, etc. Use as many slides as is necessary.

General Information

1] You will turn in **Team-x-Architecture-Diagrams-Final.ppt**.

What To Turn In

1] Page 1 of this assignment sheet. Signed by all.
2] Put a copy of your power point presentation in the Team Folder on Mars.
3] Each team member should put a backup copy on his/her own computer. Put a backup copy on your Y drive. Put a copy on your thumb drive.
4] Printed Copy Of The Entire Power Point Presentation (1 slide to a page). ← **10 POINTS**